



FK-V SERIES

End Suction Vertical Centrifugal Pump





GENERAL INFORMATION

Discharge Flange	DN 50 - DN 600
Capacity	Up to 6000 m ³ /h
Head	Up to 100 m
Frequency	Three Phase 50 Hz - 60 Hz*
Maximum Operating Pressure	Up to 16 bar



Transferable Liquids

- Clean or dirty, abrasive, medium-viscosity fluids.



Shaft Sealing

- Soft packing is used in standard production.
- It is possible to use mechanical seal according to customer request or type of liquid.



Applications

Water treatment and Pressurization	Power Plants
Heating, Ventilating and Air Conditioning	Oil Industry
Agricultural Irrigation and Drainage	Chemical Industry
Food and Beverage Industry	Mining
Iron and Steel Industry	Marine
Building System	Fire Fighting



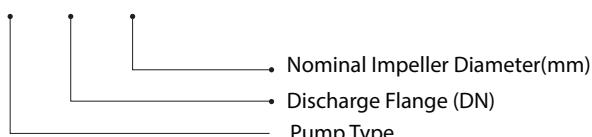
Design Features

- FK-V series pumps have designed for pumping non-abrasive and small particulars liquids.
- FK-V series have a closed impeller balanced by vanes located behind the impeller to minimize the axial load is taken in dynamic load balancing.
- FK-V series pump has just one impeller, pump and motor are connected by coupling. it gives your advantages for easy disassembling.
- Sealing is provided by gland packing. Sealing is provided by also mechanical seal as customer request.
- Easy disassembly to pump and change impeller, bearings, and seals.
- All impellers are statically and dynamically balanced according to ISO 1940 class 6.3.
- FK-V comes in 29 basic models covering wide range of operational area.
- Direction of rotation is clockwise viewed from the driver end.
- Optionally, pumps can be manufactured with shaft bushing and/or wear rings.
- Basic models designed with varatity of motors (50Hz - 60Hz) 1500 - 3000 RPM.



Pump Code

FK-V 100 - 250





DESCRIPTIONS

DIN

EN

AISI/SAE/ASTM

Cast Iron	0.6025	EN-GJL-250 (GG 25)	A 48 Class 40-B
Ductile Iron Casting	0.7040	EN-GJS-400-18-LT (GGG 40)	A 536 60-40-18
Ductile Iron Casting	0.7043	EN-GJS-400-18-LT (GGG 40.3)	A 536 60-40-18
Steel Casting	1.0619	GP 240 GHGS-C25	A216 WCB
Chrome Nickel Steel Casting	1.4308	G-X5 Cr Ni 19-10	A 351 CF8
Chrome Nickel Steel Casting (Low Carbon)	1.4309	G-X2 Cr Ni 19-11	A 351 CF3
Chrome Nickel Molybdenum Steel Casting	1.4408	G-X5 Cr Ni Mo 19-11-2	A 351 CF8M
Chrome Nickel Molybdenum Steel Casting (L.C.)	1.4409	G-X2 Cr Ni Mo 19-11-2	A 351 CF3M
Austenitic Steel Casting	1.4500	G-X7 Cr Ni Mo Cu N 25-6-3-3	A 351 CN7M
Austenitic - Ferritic Steel Casting (Dublex)	1.4517	G-X2 Cr Ni Mo Cu N 25-6-3-3	A 890 CD4MCuN
Austenitic - Ferritic Steel Casting (S.D.)	1.4469	G-X2 Cr Ni Mo N 26-7-4	A 890 CE3MN
Martensitic Stainless Steel Casting	1.4317	G-X4 Cr Ni 13-4	A 352 CA6NM
Martensitic Stainless Steel Casting	1.4008	G-X7 Cr Ni Mo 12-1	A 217 CA15
Bronze Casting (Tinned)	2.1050.01	G-Cu Sn 10	B 427 C90700
Bronze Casting (Nickel Alloy)	2.0975.01	G-Cu Al10 Ni	B 148 C95500
Bronze Casting (Leaded)	2.1096.01	G-Cu Sn 5 Zn Pb	B 584 C83600
Carbon Steel	1.0503	C 45	AISI 1045
Chromium Steel	1.4021	X20 Cr13	A 276 Type 420
Chrome Steel (Heat Treatment)	1.4021	X20 Cr13	A 276 Type 420+QT
Chrome Nickel Steel	1.4301	X5 Cr Ni 18-10	A 276 Type 304
Chrome Nickel Molybdenum Steel (L.C.)	1.4404	X2 Cr Ni Mo 17-12-2	A 276 Type 316L
Duplex (Austenitic-Ferritic) Steel	1.4460	X3 Cr Ni Mo N 27-5-2	AISI 329
Duplex (Austenitic-Ferritic) Steel	1.4462	X2 Cr Ni Mo N 22-5-3	UNS S32205
Ductile Iron Casting	0.7050	EN-GJS-500- 7 -LT (GGG 50)	A 536 70-50-05

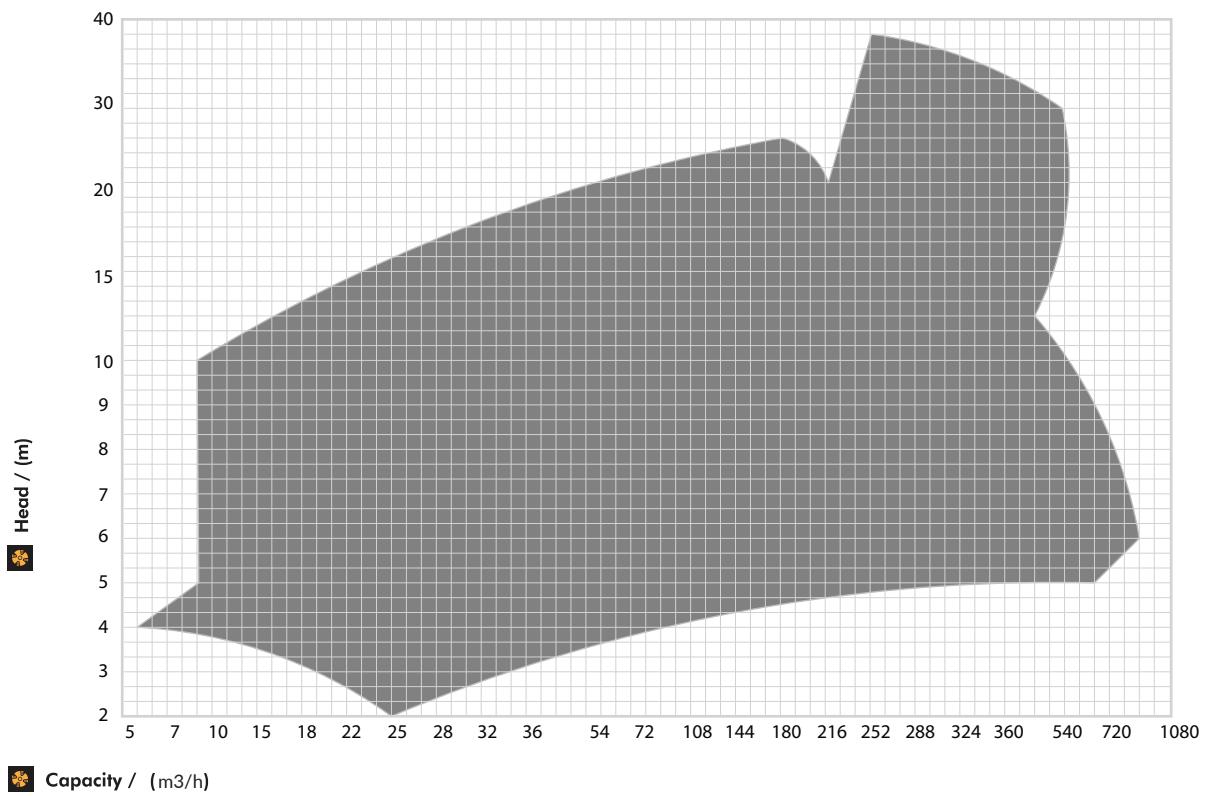




SELECTION CHARTS

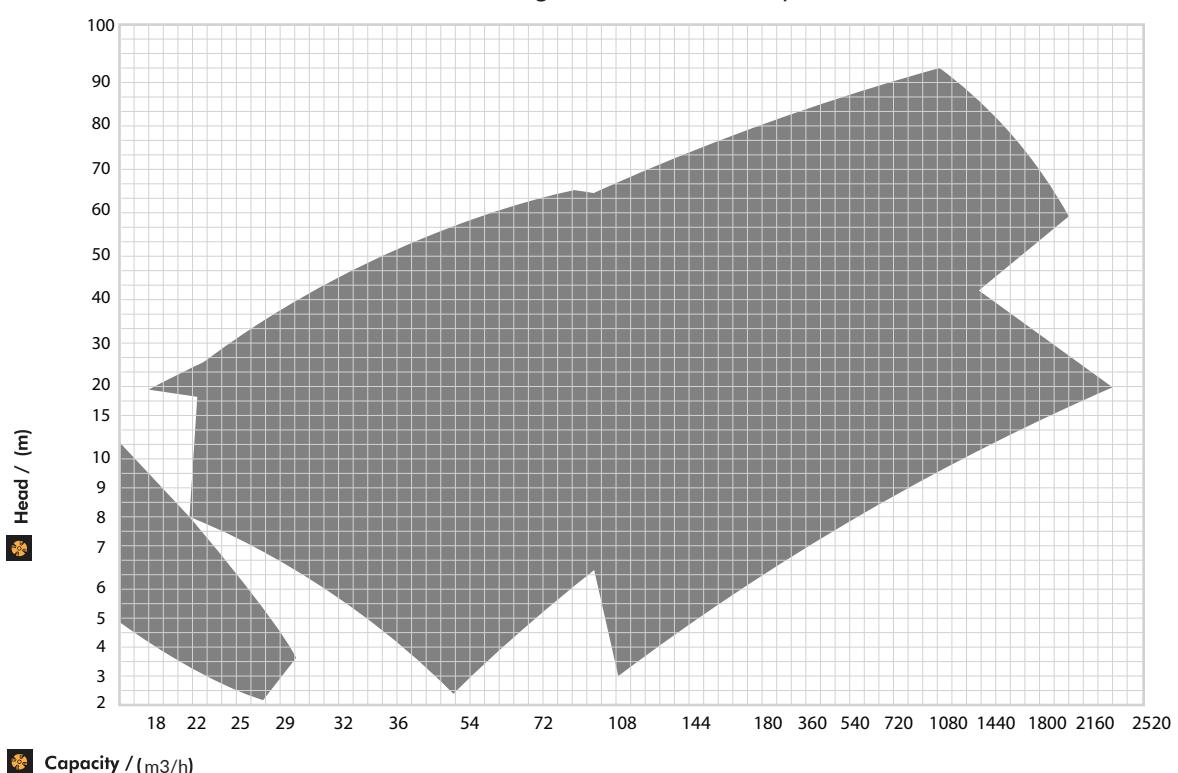
▣ (50 Hz)

Sewage (Single Vane) Pumps



▣ (50 Hz)

Sewage (Double Vane) Pumps

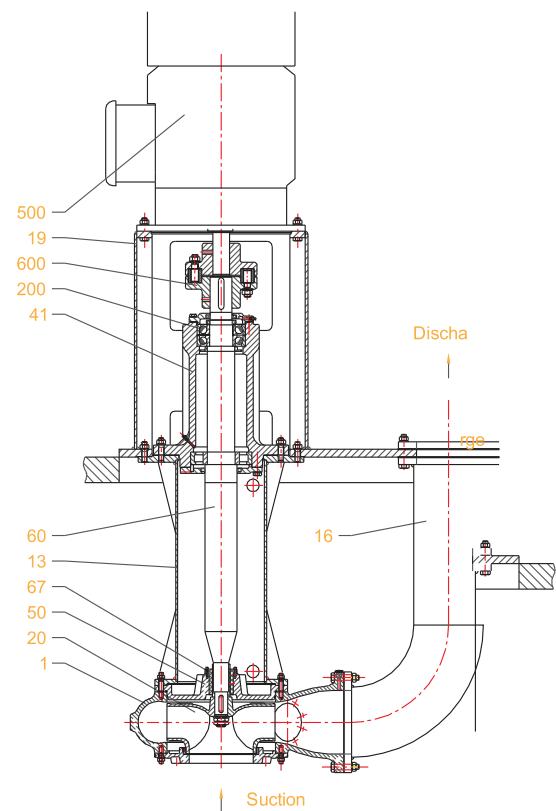
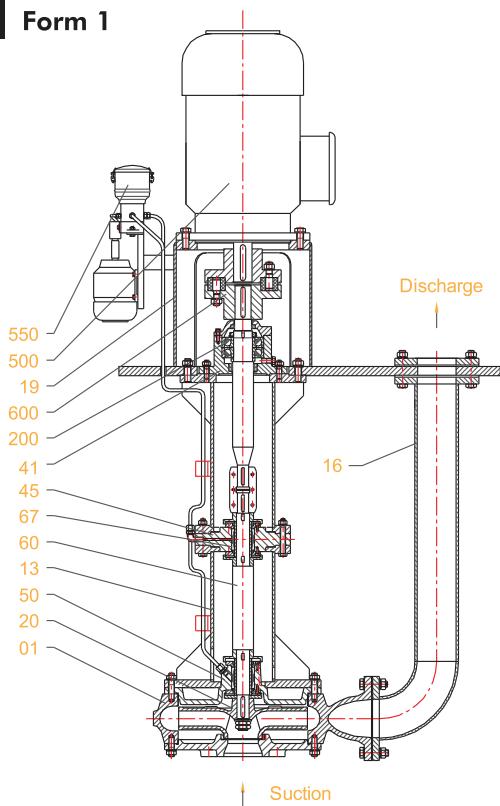




SECTIONAL VIEW



Form 1



Part List

01	Volute
13	Column Pipe
16	Discharge Pipe
19	Motor Stool
20	Impeller
41	Thrust Bearing
45	Intermediate Bearing
50	Stuffing Box
60	Shaft
67	Bearing Sleeve
200	Bearing
500	Electrical Motor
550	Grease Pump
600	Coupling

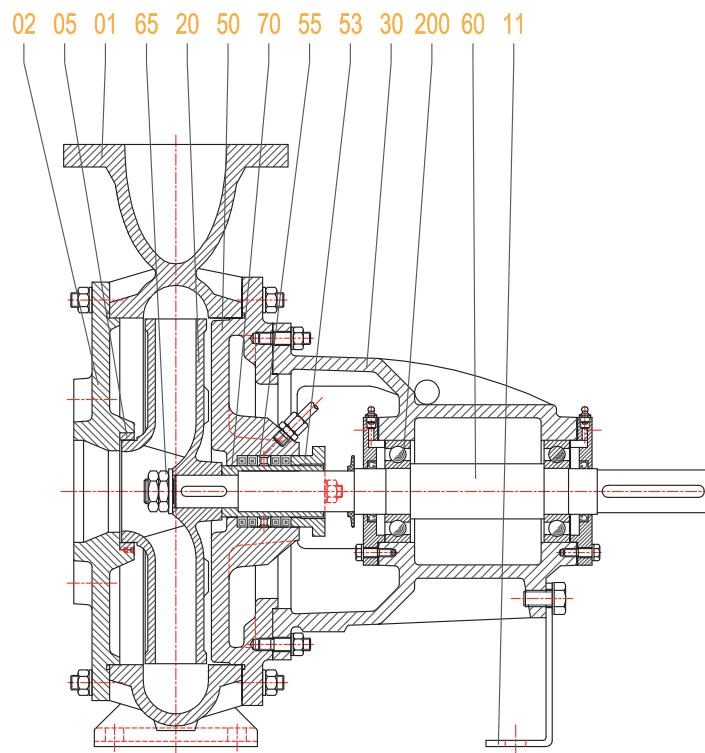




SECTIONAL VIEW



Form 2



Part List

01	Volute
02	Suction Mouth
05	Wear Ring
11	Support Foot
20	Impeller
30	Bearing Housing
50	Stuffing Box
53	Gland
55	Lantern Ring
60	Shaft
65	Impeller Nut
70	Shaft Sleeve
200	Bearing

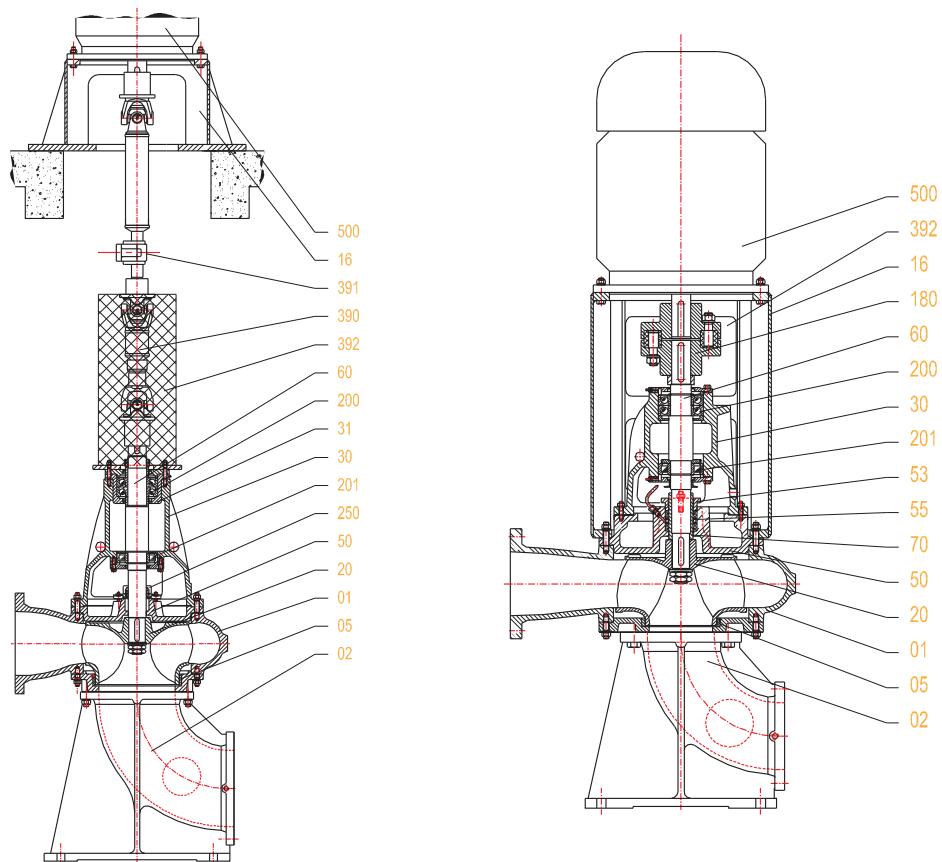




SECTIONAL VIEW



Form 3



Part List

01	Volute
02	Suction Bendh
05	Wear Ring
16	Motor Stool
20	Impeller
30	Bearing Housing
31	Bearing Housing
50	Stuffing Box
53	Gland
55	Lantern Ring
60	Shaft
70	Shaft Sleeve
180	Coupling (CAP-VM)
200	Bearing (73....)
201	Bearing (NU....)
250	Mechanical Seal
390	Cardan Shaft (CAP-VS)
391	Intermidiate Bearing (CAP-VS)
392	Safety Guard
500	Electric Motor

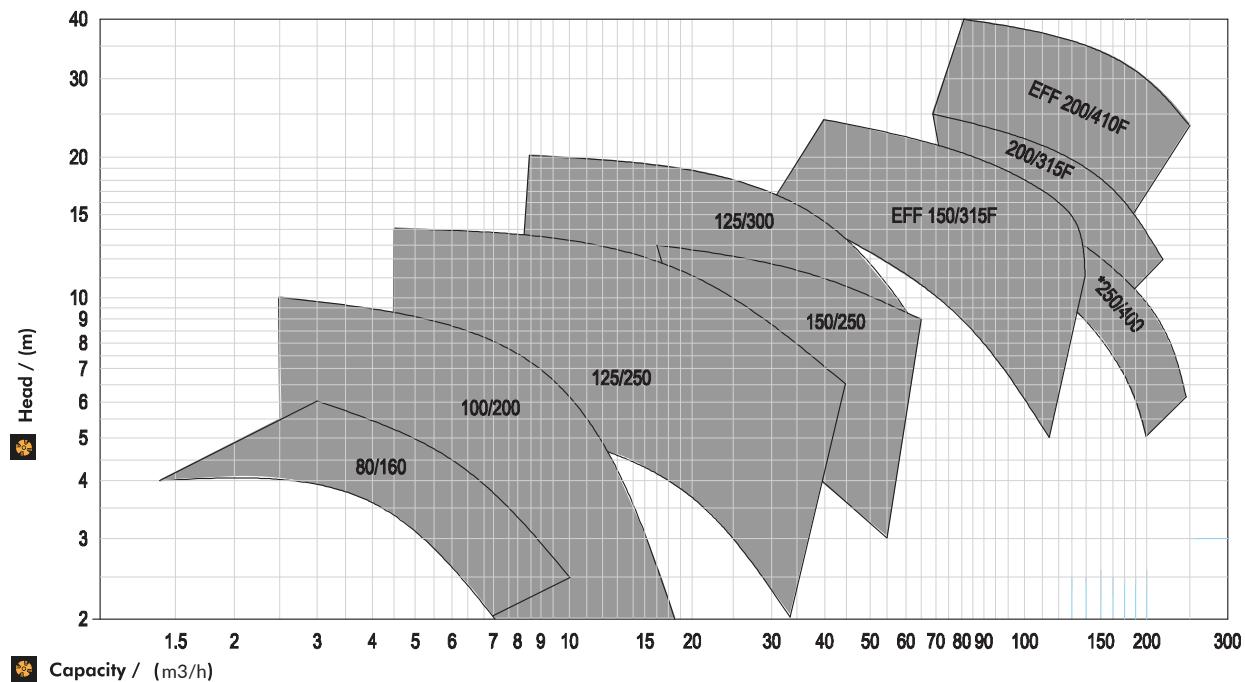




SELECTION CHARTS

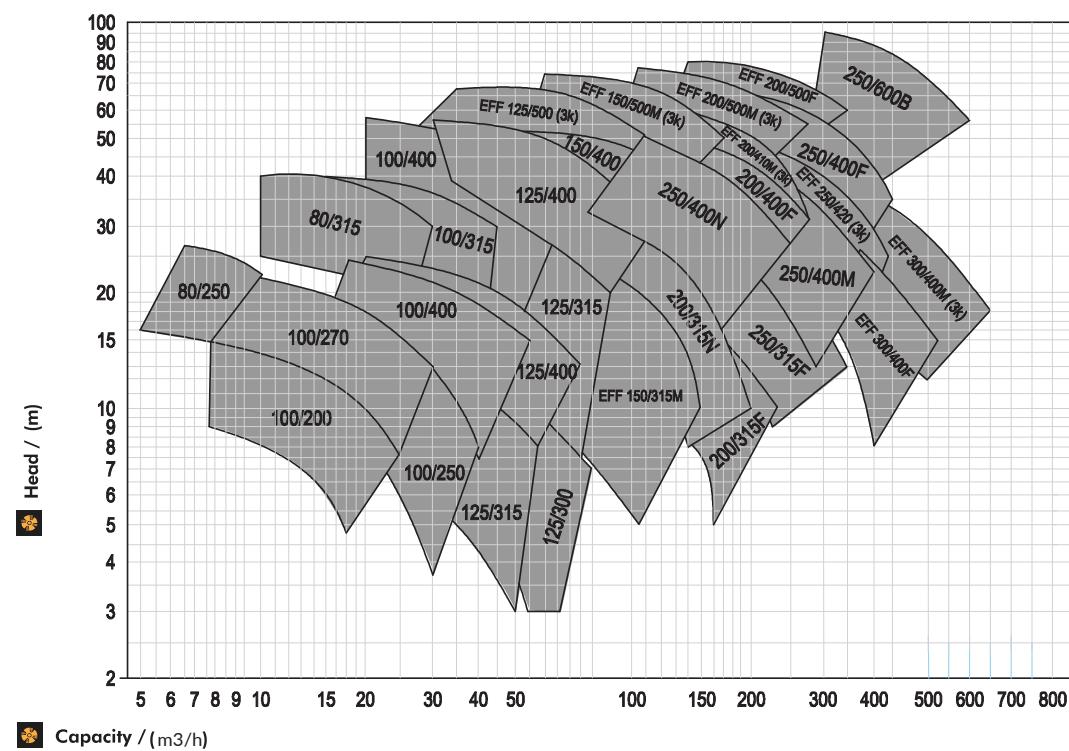
1500 rpm

Sewage (Single Vane) Pumps



1500 rpm

Sewage (Double Vane) Pumps

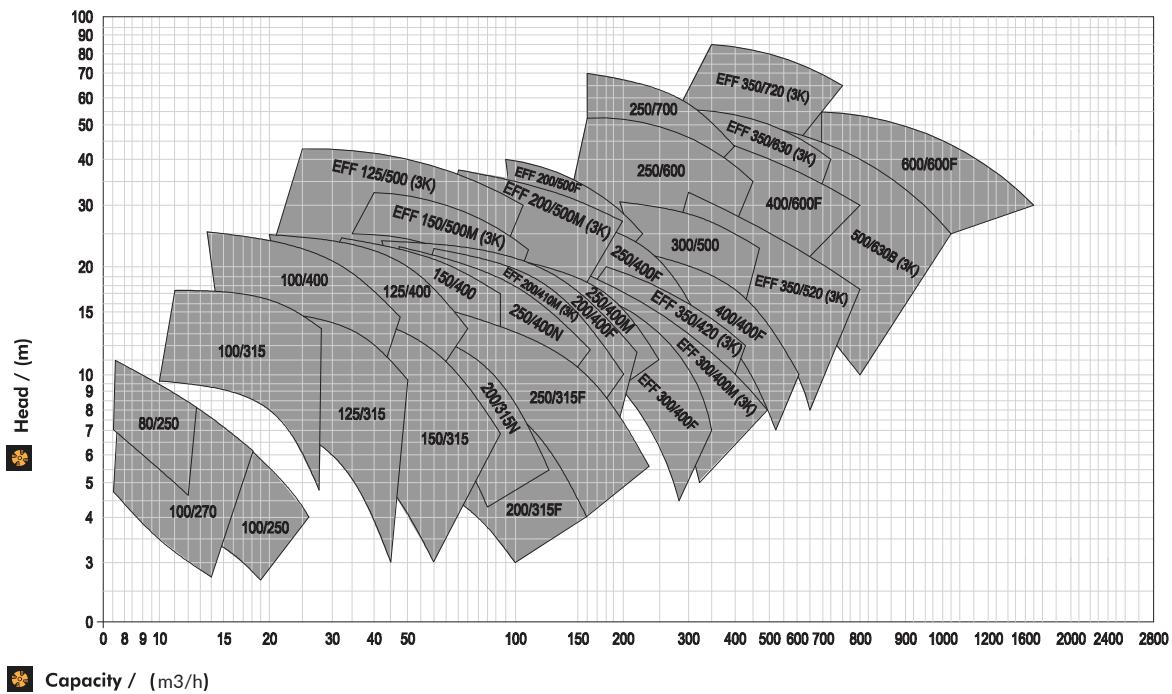




SELECTION CHARTS

1000 rpm

Sewage (Double Vane) Pumps



Capacity / (m³/h)

750 rpm

Sewage (Double Vane) Pumps

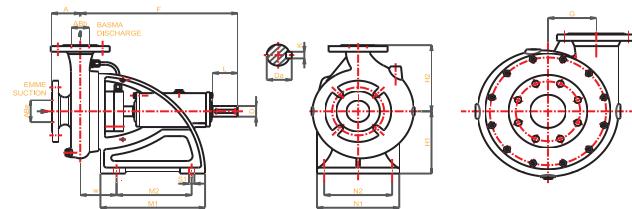


Capacity / (m³/h)

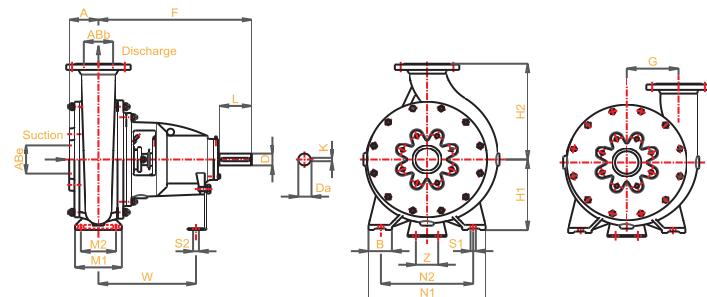




PUMP DIMENSIONS



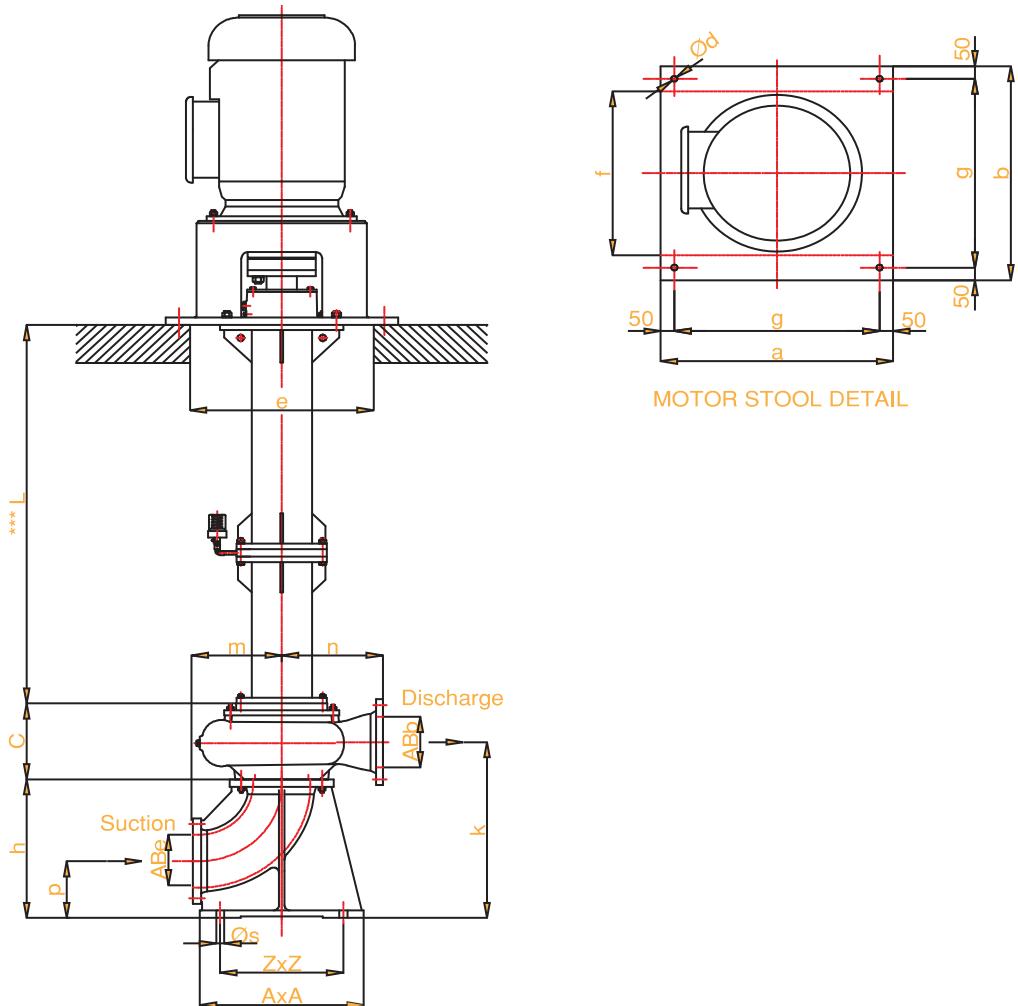
PUMP TYPE	Discharge Abb-PN10	Suction ABe-PN10	A	F	H1	H2	M1	M2	N1	N2	S1	D	Da	K	L	W	G
40 N	40		100	455		170										117	-
50 F		50		450												102	-
50 N			105	463		200		210								115	-
50 NA 250				466		225										128	-
50/200			80	455		200										102	-
80/160				65	463											115	-
80/270			61	445	188	235	295		230	190	15	32	35	10	70	97	135
100/200				61	473		246									125	-
100/200(S)				90	508		300									160	-
100/250				90	468											120	-
100/270V				72	448		235									110	135
100/270M					164											110	



PUMP TYPE	Discharge Abb-PN10	Suction ABe-PN10	A	F	H1	H2	B	M1	M2	N1	N2	S1	D	Da	K	L	W	Z	S2	G	
80/250		80	80	487	200	280		125	85	360	280	M16	32	35	10	80	305	100		-	
EFF 80/260		125	125	555	250		80	160	100	400	315	M12	42	45	12	110	371	150		-	
80/270		61	472	225	235			125	85		320		32	35	10	80	312		135	-	
80/315		73	555	250		85		120	475	400	M16		42	45	12	110	370			-	
EFF 80/320		125	125	555	250			100					32	35	10	80	330			-	
100/250		100	78	493	225		160					M12	42	45	12	110	365			-	
EFF 100/260		150	150	555	250	80	80		120	475	315	M16		42	45	12	110	333			-
100/315		100	100	523	250			200				M16		42	45	12	110	395	150	M20	-
EFF 100/320		150	140	580	275			150	550	400	M20		42	45	12	110	369			-	
100/400		100	104	553	315	367	120													-	
125/250			120	475	250	315		160	120	400	315	M16	32	35	10	80	335	100	M12	-	
125/300			116	529	288	335						M16		42	45	12	110	369			-
125/315			83	557	280	315		200		500	400									-	
125/400			107	559	315	370														-	
EFF 125/500		150	160	720	355	450	100	250		550	450	M20	60	64	18	140	480	190		-	
150/250		200	159	577	280	355		150		500	400	M20					110	405	15	-	
150/315		118	569	255	380		200			500	400	M16	42	45	12	110	385	100		-	
EFF 150/315		150	180	570	315	400				550	450	M16		52	56	16		110	420	150	-
150/400		180	715	380	500	130	250	180		560	450	M20	60	64	18	140	475	190		-	
200/315N		200	127	565	315	360	100	250		500	400	M20					381	150	M20	-	
200/315F		144	585	330	370	150	240	160	600	500		M20	42	45	12	110	401			-	
EFF 200/320		250	200	565	375	500	100	220	140	550	450						380			-	
200/400		200	148	764	380	530	150	280	200	650	500	M24	60	64	18		515			-	
EFF 200/410		250	180	740	355	500	120	250	150	550	450	M20					490			-	
200/500		200	210	874	425	560	160	280	210	720	600	M27					630			-	
EFF 200/500		250	200	820	425	560	120	210	700			M20					575	190		-	
250/400N		200	140	850				180		600	500	M27	70	75	20		605			-	
250/400M		250	160	850	380	480	140	250		600	500						638			-	
250/400F		300	295	855				350		600	500						592			-	
EFF 250/420		250	210	720	400	600	130	170	800	670	M24	60	64	18	140	480			-		
250/600		300	280	1213	550	650	160	350	250	900	740	M27	100	106	28	210	847	200	M24	-	
250/700		300	321	1159	650	750	400	280	1100	940		M27					743	400		-	
EFF 300/400		350	170	860	500	800	180	350		650							605			-	
300/500		300	335	882	580	160		250		660							638			-	
EFF 350/420		350	200	836	560			300		1080	860	M24					592			-	
EFF 350/520		265	835	680	800	225	400	300									590			-	
EFF 350/630		300	1275	670																-	
400/400		243	850	580																-	
400/402		388	858	573	565	150	350	270	800	660	M30	70	75	20		116	606			-	
EFF 400/500		300	1375	600	800	250	400	300	1000	750	M36	100	106	28	210	1010				-	
400/600		417	1035	550		160		400	900	740	M27	80	85	22	150	900	240			-	
400/700								400	300	1150	1000									-	
500/600		350	1275	700	700	250	440	340	1250	1100	M36	100	106	28	210	915	200			-	
500/630A																				-	
500/630B		500																		M20	
600/600		600	422	1202	800		325	500	400	1300	1000						210	814	400	M24	
																	500	500	500	500	



PUMP DIMENSIONS

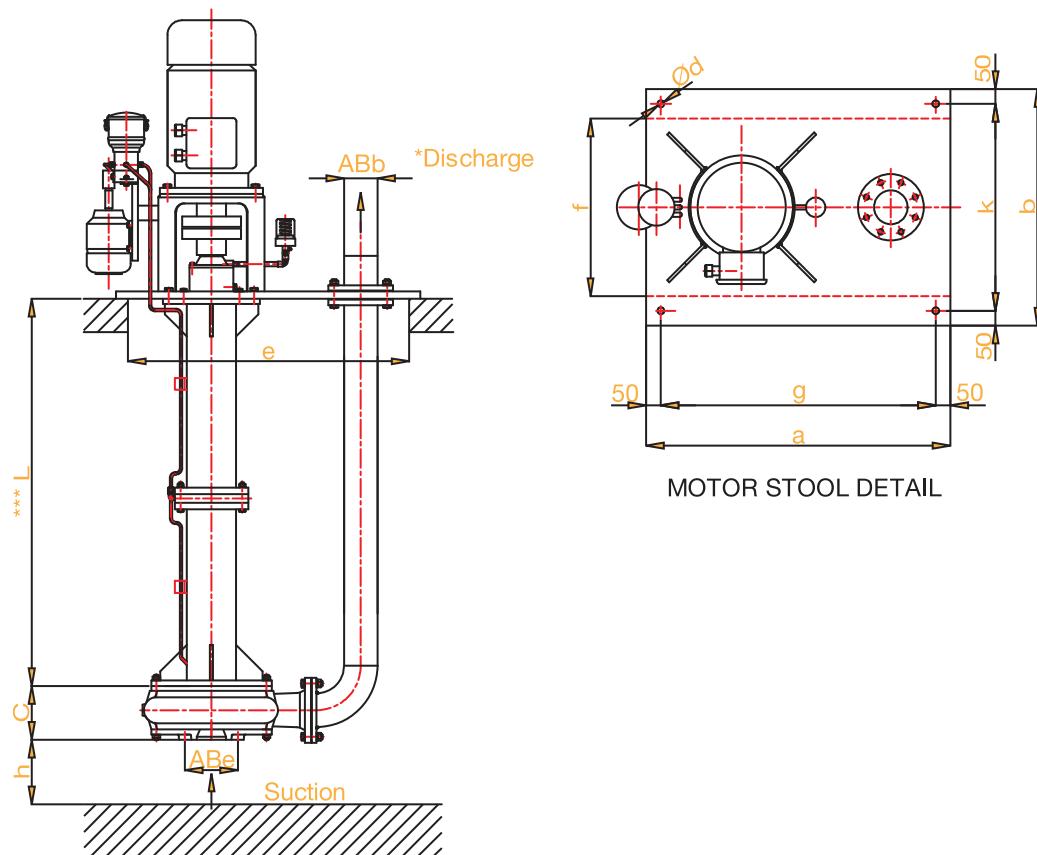


PUMP TYPE	Discharge ABb-PN10	Suction ABe-PN10	a	b	g	Ød	e	f	p	h	C	k	m	n	AXA	ZxZ	Øs	Anchor Bolt		
50/200V	50	65	400	450	350	20	400	300	125	240	95	290	145		250x250	200x200	20	M18X200		
80/160	80	80	700	700	600	23	450	500	150	340	135	405		200	350x350	250x250	23	M20x200		
80/250							600				118	400	190		280					
80/270							500				128				267					
80/315											152	410			340					
100/250	100	100	700	700	600		600	500	195	375	170	465		300	400x400	300x300	23	M20x200		
100/270											132	447		235						
100/315											195	475		340						
100/400											230	480		367						
125/250N-F	125	125	800	800	700		600	550	185	400	210	540			450x450	350x350	28	M24x250		
125/315N-F											215	485	215	315						
125/400M											240	510		370						
150/315M	150	150	900	900	800	28		750	640	210	460	260	580	275	300	500x500	600x600	30	M27x300	
150/400M											276	472	400	400						
200/315N	200	200	900	900	800			750	640	225	550	282	682		340	450x450	600x600	30	M27x300	
200/315F											302	700	325	370						
200/400M											366			535		366	600x600	450x450		
250/400N	250	250	1000	1000	900			850	760	250	600	304	760	350	480	250	650x650	500x500	30	M27x300
250/400M											335	690				335	700x700	550x550		
250/400F											285	665	332	853	380	285	700x700	550x550		





PUMP DIMENSIONS

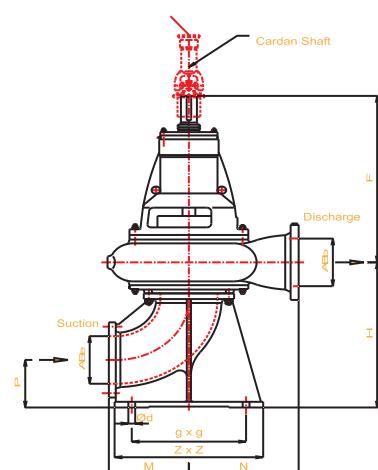


PUMP TYPE/	Discharge ABb-PN10	Suction ABe	C	h min .	e	a	g	b	k	f	Ød	Anchor Bolt
50/200V	50	65	95	150	600	600	500	450	350	300	20	M18x200
80/160V			135					500	400	350		
80/250			118									
80/270			128									
80/315			152									
100/250			170									
100/270			132									
100/315			195									
100/400			230									
125/250N-F			210									
125/315N-F			215									
125/400M			240									
150/315M			260									
150/400M			276									
200/315N			282									
200/315F			315									
200/400M			366									
250/400N			335									
250/400M			250	304	500	1400	1500	1400	1000	900	800	
250/400F			300	332								





PUMP DIMENSIONS

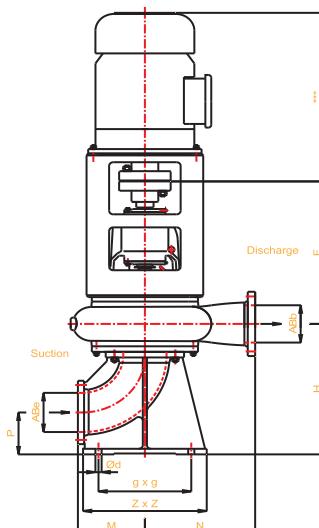


PUMP TYPE	Discharge AAb-PN10	Suction ABe-PN10	F	H	M	N	P	Z x Z	g x g	Ød	Anchor Bolt
50/200V	50	65	440	294	145	200	125	270X270	200X200	20	M18x200
80/160			480	408	190		150	350X350	250X250		
80/250		80	454	405		280	185	440X440	345X345		
EFF 80/260		125	555	528	215						
80/270			454	405	190	315	150	350X350	350X350		
80/315		80	555	413			340				
EFF 80/320		125	555	528	215	300	185	440X440	345X345		
100/200			498	435	195		190	390X390	295X295		
100/250		100	465	446		300					
EFF 100/260		150	550	613	275		210	500X500	350X350	28	M24x250
100/270	100		448	440	195	315	190	390X390	295X295	23	M20x200
100/315		100	523	468			340				
EFF 100/320		150	580	603	275	340	210	500X500	350X350	28	M24x250
100/400		100	553	472	195		340	390X390	295X295		
125/250	125	125	475	543	215	315	185	440X440	345X345	23	M20x200
125/300		150	529	589	275		210	500X500	350X350	28	M24x250
125/315		125	561	485		315	185	440X440	345X345	23	M20x200
125/400		125	559	510	215		370				
EFF 125/500		150	720	620	275	450	210	500X500	350X350	28	M24x250
150/250	150	200	577	712	325	355	225	600x 600	500X500	30	M27x300
150/315		150	570	581			380				
EFF 150/315			643	643	275	400	210	500X500	350X350	28	M24x250
150/400			644	575							
EFF 150/500			715	733		500					
200/315N	200	200	565	680	325		225	600x 600			
200/315F			585	697		370					
EFF 200/320		250	565	803	350		250	650x650			
200/400		200	779	703	325	530	225	600X600			
EFF 200/410		250	740	780	350		500	650x650			
200/500	250	200	874	763	325	560	225	600X600			
EFF 200/500		250	820	803	350						
250/315F		250	702	784	350	440					
250/400N		200	757	770	325						
250/400M		250	875	763	350	480					
250/400F		300	882	850	380		285	730X705	600X600		
EFF 250/420		250	720	813	350	600	250	650x650	500X500		
250/600	350	300	1272	948	380		285	730X705	600X600		
250/600B		350	1058	445		650	330	850X850	700x700		
250/700		300	1159	853	380		205	730X705	600x600		
EFF 300/400	350	350	850	948	445	600	330	850X850	700X700		
300/500		300	882	1000	380		285	730X705	600X600		
EFF 350/420		350	836	978	445	585	330	850X850	700X700		
EFF 350/520			880	1155							
EFF 350/630			915	1180		510					
400/400	400		858	1130			380	1000x1000	800X800		
400/402			1276			800					
EFF 400/500			1375	1403							
400/600			1259	1520		635					
400/700			1454				700				
500/600	500		1275			1000					
500/630B			1850				470	1200X1200	1000X1000		
600/600	600	600	1202		960	700		1850X1850	1650X1650		





PUMP DIMENSIONS



PUMP TYPE	Discharge ABB-PN10	Suction ABB-PN10	F	H	M	N	P	Z x Z	g x g	Ød	Anchor Bolt					
50/200V	50	65	440	294	145	200	125	270X270	200X200	20	M18x200					
80/160		80	480	408	190	150	350X350	250X250	23	M20x200						
80/250		454	405	215	280	185	440X440	345X345								
EFF 80/260		125	555	528												
80/270		80	454	405	190	315	150	350X350		350X350						
80/315		555	413	215	300	185	440X440	345X345								
EFF 80/320		125	555	528												
100/200	100	100	498	435	195	246	190	390x390		295x295						
100/250		465	446	275	300	210	500x500	350X350	28	M24x250						
EFF 100/260		150	550	613	300	190	390x390	295x295	23	M20x200						
100/270		448	440	195	315	190	390x390	295x295	23	M20x200						
100/315		523	468		340	210	500x500	350X350	28	M24x250						
EFF 100/320		150	580	603	275	210	500x500	350X350	28	M24x250						
100/400		100	553	472	195	340	190	390x390	295x295	23	M20x200					
125/250	125	125	475	543	215	315	185	440X440	345X345	28	M24x250					
125/300		150	529	589	275	335	210	500x500	350X350							
125/315		561	485	215	315	185	440X440	345X345								
125/400		559	510		370	210	500x500	350X350	28	M24x250						
EFF 125/500		150	720	620	275	450	210	500x500	350X350							
150/250	150	200	577	712	325	355	225	600x 600	500x500	30	M27x300					
150/315		150	570	581	275	380	210	500x500	350X350	28	M24x250					
EFF 150/315		643	643	400	210	500x500	350X350	28	M24x250							
150/400		644	575	715	500	225	600x 600	500x500	30	M27x300						
EFF 150/500		715	733		370	225										
200/315N	200	200	565	680	325	370	225	600x 600	500x500	30	M27x300					
200/315F		585	697	350	370	225	600x 600	500x500								
EFF 200/320		250	565	803	350	500	250	650x650	500X500							
200/400		200	779	703	325	530	225	600X600	500X500							
EFF 200/410		250	740	780	350	500	250	650x650	500X500							
200/500	250	200	874	763	325	560	225	600X600	500X500	30	M27x300					
EFF 200/500		250	820	803	350	480	250	650x650	500X500							
250/315F		250	702	784	350											
250/400N		200	757	770	325											
250/400M		250	875	763	350											
250/400F	300	300	882	850	380	480	285	730X705	600X600	30	M27x300					
EFF 250/420		250	720	813	350											
250/600		300	1272	948	380	600	285	730X705	600X600							
250/600B		350	1058	445	650	330	850x850	700x700								
250/700		300	1159	853	380											
EFF 300/400	350	350	850	948	445	600	330	850x850	700X700	30	M27x300					
300/500		300	882	1000	380	585	285	730X705	600X600							
EFF 350/420		350	836	978	445	800	330	850x850	700X700							
EFF 350/520		880	1155	510	1276											
EFF 350/630		915	1180		635	380	1000x1000	800X800								
400/400	400	400	1130	1403		1276		700	1200X1200			1000X1000				
400/402		858	1276		1000	470	1850X1850	1650X1650								
EFF 400/500		1375	1403	1520								1276				
400/600		1259	1520	635	1454	700	470	1850X1850	1650X1650							
400/700		1275	1454													
500/600	500	600	1850	960	700	470	1200X1200	1000X1000								
500/630B		600	1202													
600/600	600	600	1202	960	700	470	1850X1850	1650X1650								

